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10/664,071	09/17/2003	Sami Poykko	59643.00174	3237
	7590 01/03/200 DERS & DEMPSEY L	EXAMINER		
14TH FLOOR			VU, MICHAEL T	
8000 TOWERS CRESCENT TYSONS CORNER, VA 22182			ART UNIT	PAPER NUMBER
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SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/664,071	POYKKO ET AL.			
		Examiner	Art Unit			
	~ ^ /	Michael Vu	2617			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failur Any r	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEL	N. tely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	·					
 Responsive to communication(s) filed on <u>20 October 2006</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Dispositi	on of Claims					
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □ 10) □	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine is/are drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine is on the order of the oath or declaration is objected to by the Examine is on the oath or declaration is objected to by the Examine is on the oath or declaration is objected to by the Examine is objected to be in the objected to b	vn from consideration. r election requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Response to Arguments

1. Applicant's Remarks/Arguments filed October 20, 2006, have been fully considered but they are not persuasive.

In response to applicant's Remarks/Arguments in claims 1, 3 and 5 that references fail to disclose or suggest "at least the feature of analyzing an effect of ignoring a measurement" on page 5, line 4-5.

Examiner respectfully disagrees. The examiner must give the broadest reasonable interpretation to all claims 1, 3 and 5 that Dvorak clearly teach at least the feature of analyzing an effect of ignoring a measurement (see paragraphs Col. 2, line 23-35, Col. 4, line 39-59) disclosed that the measurements are used as the time difference and perform various forms of statistical analysis, such as ignoring the different values (Col. 2, line 23-35).

Dvorak fails to disclose or suggest that "suspicious data points are identified by analyzing the effect of ignoring a measurement" on page 5, line 11-12. And

References fail to disclose or suggest "at least the feature to identify suspicious measurements" on page 5, line 17-18. And references fail to disclose or suggest "at least the feature of an suspicious measurement identifier configured to identify suspicious measurements on page 9, line 7-8.

Examiner respectfully disagrees. The examiner must give the broadest reasonable interpretation to all claims 1, 3 and 5 that the combination of Dvorak and Kalliojarvi clearly teach a receiving device applying a list decoding error correction decoder have at its disposal memory block for temporarily storing the lists of decoded sequencies that associated with reliability metrics, in which similar to the retransmission control unit that arranged to perform the replacements according to the selected replacement strategy either before any retransmission requests or concurrently use of other measurements than just the calculation of reliability metrics to identify the suspicious packets, frames and/or sub-packets. Further the receiving device decide that if the signal to noise ratio is above a given the threshold value, a cyclic redundancy check mismatch will always be interpreted as a single transmission error and consequently only one sub-packet will be identified as suspicious (Col. 13, line 22-40).

Therefore, the argued limitations are the same as disclosed by the reference or the limitations are written broad such that they read on the cited art, rejections are maintained as repeated below:

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dupray (US 6,249,252) in view of Dvorak (US 6,300,904), and in further view of Kalliojarvi (US 6,438,723).

Regarding **claims 1, 3 and 5**, Dupary teaches a method of providing information regarding a location of a mobile user of a communication system (Abstract, C8, L7-67 to C9, L1-67), the method comprising: performing measurements for provision of input data for a location calculation function (C48, L26-67 to C49, L1-5); deciding selected measurements for use by the location calculation a location estimate for a mobile user based on the selected measurements (C48, L26-67 to C49, L1-5).

But Dupary is silent on analyzing an effect of ignoring a measurement.

However, Dvorak teaches the multiple spaced apart receivers such that average time difference of arrivals of the signals are used to calculate a positions of the item to be located with desired accuracy and different measurement values are taken at different frequencies and perform various forms of statistical analysis, such as ignoring the different values (Figs. 1-6, C2-23-55, C3, L39-67 to C4, L1-67, C5 to C6, L1-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dupary, such that analyzing an effect of ignoring a measurement, to optimize the location accuracy, reliability, and efficiency, e.g. minimizing the inconsistencies or latency over the path.

Dupray/Dvorak are silent on to identify suspicious measurements.

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However, Kakkiojarvi teaches method and arrangement for the reliable transmission of packet data that corresponding to the error detection method use of other than the measurements and calculation of reliable metrics to identify the suspicious packets or data (C13, L22-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dupary in view of Dvorak, to identify suspicious measurements, to enhance the reliability of the network transmission, e.g. minimizing the inconsistencies or latency over the path.

Regarding **claims 2, 4 and 6**, Dupray/Dvorak/Kalliojarvi teach in claim 1, wherein the step of analyzing further comprises analyzing a discrepancy (inconsistence or different) between the selected measurements and the location estimate (C48, L26-67 to C49, L1-5) of Dupray.

4. Claims 7-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dupray in view of Kalliojarvi. [Hereafter Dupray and Kalliojarvi]

Regarding claims 7, 12, and 17, Dupray teaches a location system (C3, L34-52) comprising: a controller configured to control at least one base stations (C10, L12-45); a location service node configured to provide a client application with a measurement regarding geographic location information of at least one mobile station (C8, L7-67); an interface configured to receive the measurement regarding the geographic location information of the at least one mobile station and to transmit the measurement regarding the geographic location information to a location device; the location device

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configured to determine a location estimate based upon the measurement regarding the geographic location (C3, L34 to C22, L3); by analyzing a discrepancy between the measurement and the location estimate (C48, L26-67 to C49, L1-5),

but is silent on a suspicious measurement identifier configured to identify suspicious measurements

However, Kakkiojarvi teaches method and arrangement for the reliable transmission of packet data that corresponding to the error detection method use of other than the measurements and calculation of reliable metrics to identify the suspicious packets or data (C13, L22-41).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Dupray, such that a suspicious measurement identifier configured to identify suspicious measurements by analyzing a discrepancy between the measurement and the location estimate, to provide the location accuracy, reliability, and efficiency, and minimizing the inconsistencies or latency over the path.

Regarding **claims 8, 13 and 18**, Dupray/Kakkiojarvi teach in claim 7, wherein the location service node provides location services for a plurality of client applications (Figs. #4-7, C17 to C21) of Dupray.

Regarding **claims 9, 14, and 19**, Dupray/Kakkiojarvi teach in claim 7, wherein the interface comprises a gateway mobile location center (C46, L20-67 to C47, L1-37) of Dupray.

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Regarding claims 10, 15, and 20, Dupray/Kakkiojarvi teach in claim 7, wherein the location estimate is based upon a measurement regarding a position of the at least one mobile station relative to the at least one base station (C17 to C22) of Dupray.

Regarding **claims 11 and 16,** Dupray/Kakkiojarvi teach in claim 7, wherein the location device comprises the suspicious measurement identifier (C13, L22-40) of Kakkiojarvi.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Vu whose telephone number is (571) 272-8131. The examiner can normally be reached on 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael T. Vu

Examiner

TEMICA BEAMER
PRIMARY EXAMINER